



Activity 3: Pairwise Comparison

Student Page

For the Pairwise Comparison method, each candidate is matched head-to-head with each other candidate. Each candidate gets one point for a one-on-one win and a half point for a tie. The candidate with the most total points is the winner.

Now begin filling in the table of head-to-head match-ups for the student council election. To do this, you must go back to the preference schedule and determine how many voters prefer Shawn to Gail and how many prefer Gail to Shawn.

	Number of votes received			
Place	390	360	300	450
1 st	Shawn	Gail	Gail	Ricco
2 nd	Twanda	Twanda	Twanda	Twanda
3 rd	Ricco	Ricco	Shawn	Shawn
4 th	Gail	Shawn	Ricco	Gail

You can see that 840 voters prefer Shawn to Gail and 660 prefer Gail to Shawn. This indicates that in the head-to-head match-up, Shawn is the winner. Place Shawn in the cell indicating the winner.

	Shawn	Gail	Twanda	Ricco
Shawn	-----	Shawn		
Gail	-----	-----		
Twanda	-----	-----	-----	
Ricco	-----	-----	-----	-----

2. Who is the winner in the head-to-head match-up between Shawn and Twanda?
3. Who is the winner in the head-to-head match-up between Shawn and Ricco?
4. Who is the winner in the head-to-head match-up between Gail and Twanda?
5. Who is the winner in the head-to-head match-up between Gail and Ricco?
6. Who is the winner in the head-to-head match-up between Twanda and Ricco?

Now that we know the head-to-head winners, we can total all the scores and determine the winner of the election.

7. What is the point total for Shawn?
8. What is the point total for Gail?
9. What is the point total for Twanda?
10. What is the point total for Ricco?

Who wins the election using the Pairwise Comparison method?